

DMS INTERFACE COMPLIANCE TEST FOR:

Centar MCS d.o.o.
XC-Vision 1.0

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1. EXECUTIVE OVERVIEW

This document gives an overview of the results of the test to check whether the DMS integration complies with the standards of General Motors (GM).

The compliance test has been performed for the DMS: **XC-Vision 1.0**, developed by **Centar MCS d.o.o.** communicating with GM via various interfaces.

The following interfaces **were tested** against the GM standards:

- EPPP (OPA001 - OPA004)
- RIM (IPA611)
- GME VC
- CIS
- SADE 1.1 (IPA812)

The following tested interfaces **are compliant** with the standards of GM:

- EPPP (OPA001 - OPA004)
- RIM (IPA611)
- GME VC
- CIS
- SADE 1.1 (IPA812)

2. SCOPE OF THE TEST

2.1. Included in the scope

During the tests TAG verified for below interfaces that the DMS was able to generate and accept data according to GME standards:

- EPPP (OPA001 - OPA004)
- RIM (IPA611)
- GME VC
- CIS
- SADE 1.1 (IPA812)

2.2. Not included in the scope

- In depth test of the DMS – User acceptance tests
- Reviewing the DMS user guidelines/documentation
- End-to-end testing.

3. TEST ENVIRONMENT

Test was performed by establishing a remote connection over the public Internet with SSL support from the TAG test facilities to the DMS system using WEBEX application.

Mr. Bojan Vuk (developer) guided TAG through the DMS demonstrating all interfaces and performed transactions' tests.

TAG team checked the record layouts, mandatory functionality sets and communication using corresponding test environments. After that it was double checked manually analyzing record layouts. The DMS system located at the vendor does not have a connection to the GM Intranet.

3.1. Product Identification

During the tests, we used DMS **XC-Vision 1.0**, developed by **Centar MCS d.o.o.**

4. THE TESTS

4.1. European Parts Price Publication (OPA001 - OPA004)

4.1.1. Test Description

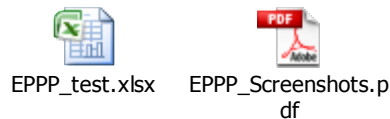
Following mandatory functionalities were tested:

During compliance test TAG verifies whether DMS is able to manage following aspects of EPPP interface:

- **Franchise Codes.** DMS should store data for relevant franchises pertaining each dealer only.
- **Check Transmission Number.** Each Daily/Full transaction needs to have its own transmission number. DMS should process file(s) only if TN is next consecutive (+1) comparing to last received transmission. All communication should be written into easy to use communication log allowing user to precisely identify potential transmission problem, use Exchange manager to resend, if this does not work please contact DAC.
- **Mechanism to identify the split files.** DMS has to be able to correctly merge split files. If any split is missing DMS should stop processing and write corresponding information into communication log, use Exchange manager to resend, if this does not work please contact DAC.
- **Select language.** DMS should update description data depending on language code match against predefined language list valid for dealer.
- **Extract New Version Number.** Process needs to be run every time a Full publication Price data is received. It has to be run after Filtering on Franchise Codes and before Extract Effective Date processes.
- **Extract Effective Date.** Process needs to be run every time a Full publication Price data is received. It has to be run after Extract New Version Number process.
- **GM Service Indicator.** DMS has to be capable to segregate active parts from non-active parts.
- **Price Effective Date.** DMS should make prices effective when validity date is reached.
- **Flag as No Longer Service.** DMS should be capable to flag NLS all superseded parts as well as part numbers present in current Full publication and not part of next Full publication.

- **Supersession process.** The DMS Parts Master file must be able to report that a part number has been superseded by one or multiple numbers, as well as the superseding part number(s) must show and report the superseded one(s) as a reference for the Dealer Operator.
- **Dealer Stock Indicator.** DMS must maintain a DSI which allows the differentiation between a part number located in the DMS Master File for information and an effective stock part number.
- **DMS Cleanup process.** DMS should be able to clean up Master File from Part Data being no longer of Dealer's interest. Process should be based on a combination of both Dealer Stock and GM Service indicators.
- **Report Views.** DMS must provide reports for Price Update, Discount Code Change and Bonus Code Change.
- **Trade Club Prices.** Trade Club Manual Indicator should be supported triggering EPPP or external source as a feed for Trade Club Price.
- **Dealer Price.** DMS needs to extract Dealer Price from Price publication only. No additional recalculations of prices are allowed.

Test scenario as well as screen shots from the test can be found in files below:



Sample answerback and MMD file:



4.1.2. Test Result

DMS was able to utilize all required features listed in point 4.1.1.

This interface was **successfully** tested.

4.2. RIM Invoices & Inventory (IPA611)

4.2.1. Data Supplied



4.2.2. Record Layout



4.2.3. Test Result

The transaction files were double checked during the compliance tests. They were checked manually in TAG test environment first and then the communication with pre-prod environment using the ETCM tool was performed as well.

The Layouts of the generated files are **ok**.

This interface was **successfully** tested.

4.3. GME VC

4.3.1. Test Description

Following mandatory features have been checked:

- Creating a new configuration in GME VC.
- Retrieving created configuration from GME VC.
- Calling saved configuration in GME VC again.

GME VC interface:



4.3.2. Test Result

DMS was able to utilize all required features listed in point 4.3.1.

This interface was **successfully** tested.

4.4. CIS (Campaign Information System)

4.4.1. Test Description

Following mandatory functionality set was verified during the test:

- Inform the user when creating a new repair order, if the vehicle in scope is affected by a technical campaign.
- Enabling a direct link from DMS to the CIS website with a single click.

Below is a document provided by vendor, which describes tested functionality.



CIS.pdf

4.4.2. Test Result

DMS was able to utilize all required features listed in point 4.4.1.

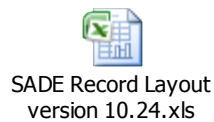
This interface was **successfully** tested.

4.5. SADE 1.1 (IPA812)

4.5.1. Data Supplied



4.5.2. Record Layout



4.5.3. Test Result

The extract was checked according to three steps test scenario. Communication was checked with pre-prod environment using the ETCM tool, XSD validation was performed in TAG test environment and then business data validation was performed in FCS test environment.

The layout of the generated file is ok.

This interface was tested **successfully**.

5. CONCLUSION

The following tested interfaces **are compliant** with the standards of GM:

- EPPP (OPA001 - OPA004)
- RIM (IPA611)
- GME VC
- CIS
- SADE 1.1 (IPA812)

6. REFERENCE

All record layout documentation is available on the TAG website at <https://rit.gm.pl.capgemini.com/>

Appendix A: Document Control

Version History:

Version	Date	Name	Comments
1	21/07/2011	TAG	Initial release

Document Reviewed By:

Name	Location	Responsibility
Mateusz Kiełbasiński	Capgemini	Author/Reviewer
Mirosław Mateja	Capgemini	Author/Reviewer
Maciej Naumienko	Capgemini	Publisher